



# Denagene Tajhiz Company

Biotechnology Lab Equipment Manufacturer and Designer



## About Us

Established in 2014 in Tehran, at the Science and Technology Park of Tarbiat Modares University, Denagene Tadjiz proudly stands as a distinguished lab equipment manufacturing Iranian company.

Our focus lies in the design and manufacturing of laboratory and biotechnology equipment and materials, and we take pride in our active Research and Development unit dedicated to advancing essential products within these domains.

Our main goal at Denagene is to provide suitable, reliable, and precise solutions for biotechnology researchers and scientists, enabling them to achieve the best results in their experiments. We have strived to become a leading laboratory in Iran, focusing on quality, precision, and flexibility.

By leveraging the latest technologies, we strive to offer our services and equipment to fellow citizens at a level synchronized with global advancements.

**Horizontal electrophoresis (agarose gel electrophoresis)** is a technique used to separate and analyze DNA and RNA. The basis of separation in electrophoresis is the movement of a charged molecule through a medium under an electric field, which is performed using a device known as a horizontal electrophoresis system.

This device is commonly used in cellular and molecular biology laboratories. Denagene Tajhiz is a leading manufacturer of various models of horizontal electrophoresis systems for nucleic acid separation.

To ensure long-term use and resistance to various conditions, the electrophoresis tanks produced by Denagene Tajhiz are made from the highest quality materials and are designed with complete user-friendliness in mind for researchers.



## Horizontal Electrophoresis

**Cathode**

**Anode**

connection point for the electrode



**Dual-sided comb**  
for creating wells

**Get tray**  
for placing the gel



## Applications

- Estimating the size of DNA molecules after restriction enzyme digestion: For example, mapping cloned DNA after exposure to restriction enzymes.
- Analyzing PCR products: For example, in genetic diagnosis or genetic fingerprinting.
- Separating DNA fragments for extraction and purification.
- Separating fragmented genomic DNA before Southern blotting or RNA before Northern blotting.

- High-quality band separation and resolution
- Uniformity of current along the electrodes
- Used in Research and Diagnostic Centers
- Utilizes Excellent Raw Materials
- Ability to Purchase Custom Models



## Features

# Technical Specification

Horizontal Electrophoresis

Model	Midi HD 10*10	Maxi Plus HD 20*20
Gel Dimensions (CM)	7*10 & 10*10	20*20 & 15*20
Buffer Volume (ML )	300	1200
Well Quantity	10 & 14	25 & 31
Maximum Sample Quantity	28	124

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## **Horizontal Electrophoresis**

is a technique used to separate and analyze DNA, RNA, and proteins, which is essential for molecular research and disease diagnostics.

The robust design and ease of use of Denagene Tajhiz's device streamline laboratory processes and help reduce user errors.



**Address:** Shahid Beheshti University of Medical Sciences, Medical Device Incubator Unit  
International Center Health Technology Park, Ofogh Street, Hakimiyeh  
Tehran, Iran

**Mobile Phone:** +989108540017

**Website:** [www.Denagene.com](http://www.Denagene.com)

**Regional Manager:** [Regionalmanager@denagene.com](mailto:Regionalmanager@denagene.com)



# Molecular Biology Is Our Business

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